OIPE JC190
JUN 17 2002
PATENT & TRADEMARK OFFICE

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of

Toyoshima et al.

For: **METHOD AND SYSTEM FOR DYNAMIC BUSINESS MANAGEMENT OF A NETWORK**

Examiner: C. Harrison

Serial No.: 10/087184

Filed: February 27, 2002

Atty. Docket No.: Lucida, Inc. - 01 (20153-001)

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June 17, 2002

Shawn Anderson

LETTER TRANSMITTING OF SUBSTITUTE DRAWINGS

Commissioner for Patents
Washington, D.C. 20231
Attn.: Official Draftsman

Dear Sir:

In response to the Notice to File Corrected Application Papers mailed on April 17, 2002, enclosed herewith are thirteen (13) sheets of Substitute Drawings for the above-identified application.

No fee is due with this communication. The Commissioner is authorized to charge any fees and to credit any overpayment of fees which may be required to Deposit Account No. 13-0201, referencing Atty. Docket No. Lucida, Inc. - 01 (20153-001). A duplicate copy of this sheet is enclosed.

Respectfully submitted,

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Registration No. 37,652

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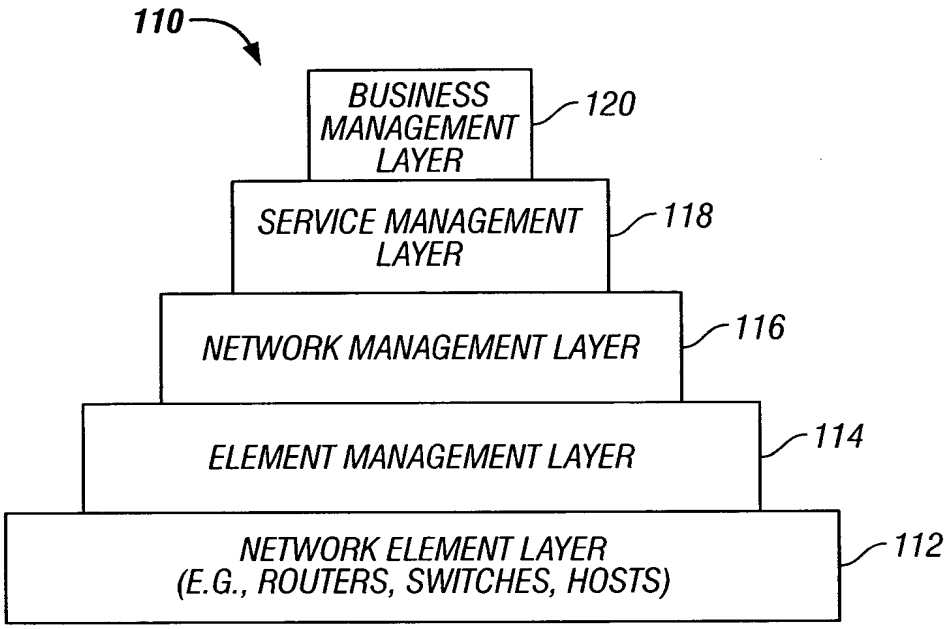


FIG. 1
(Prior Art)

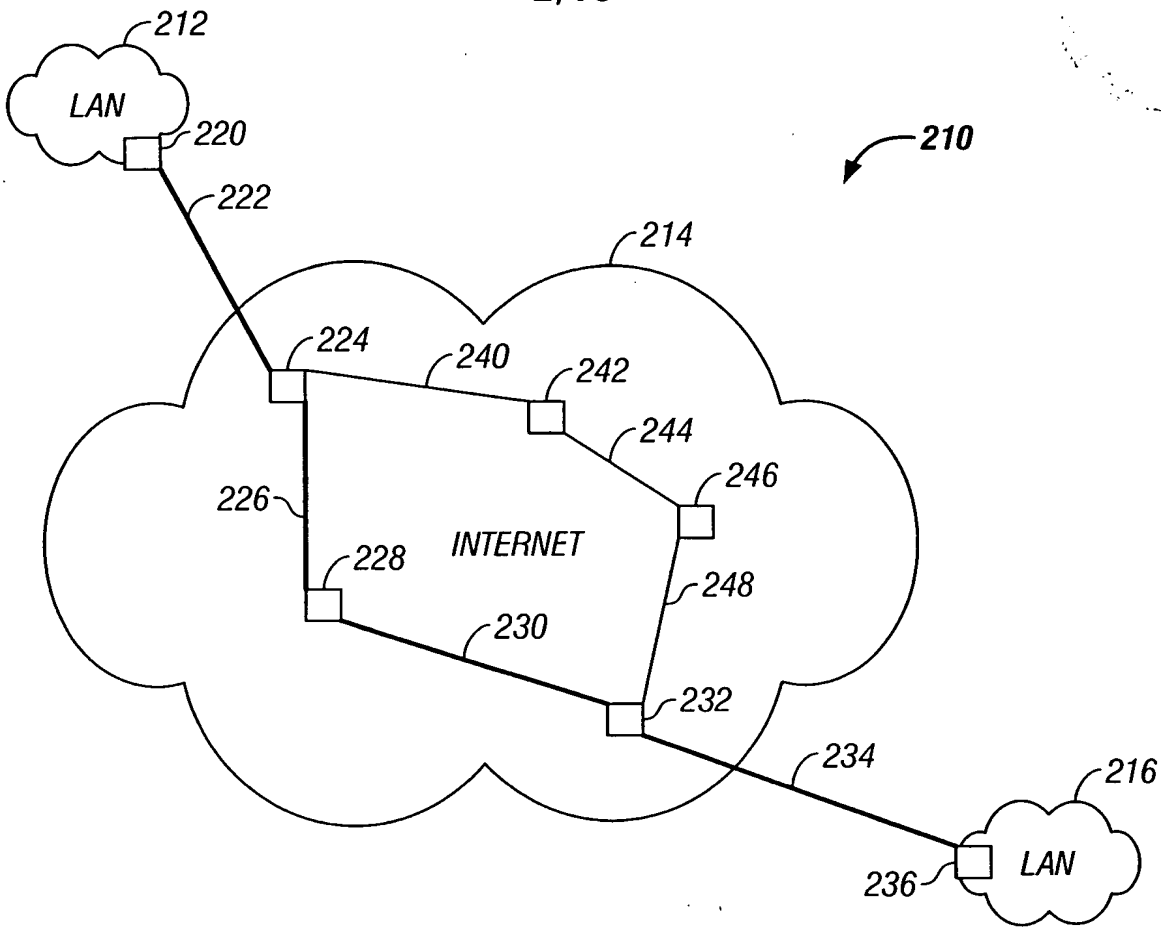


FIG. 2
(Prior Art)

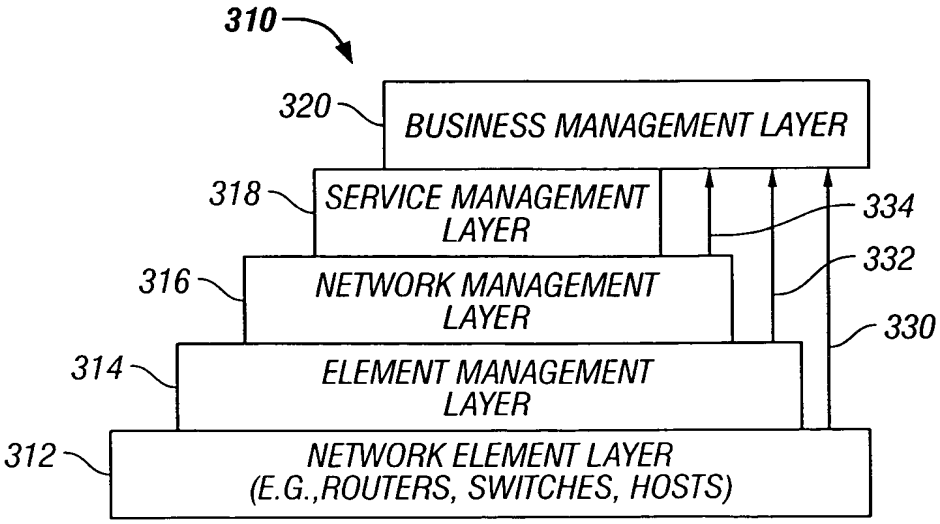
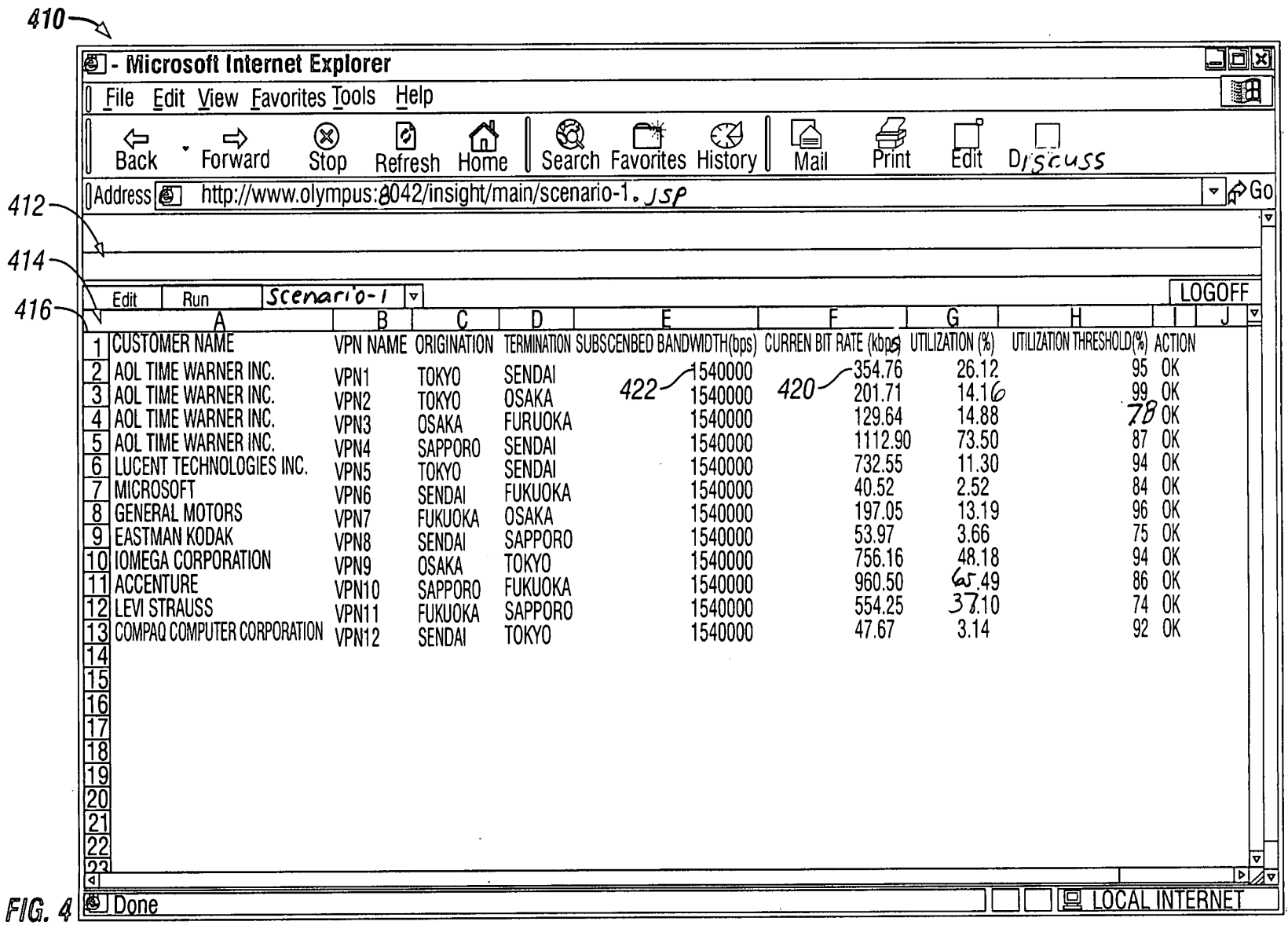


FIG. 3



	A	B	C	D	E	F	G	H	I	J
1	CUSTOMER NAME	VPN NAME	ORIGINATION	TERMINATION	SUBSCENBED BANDWIDTH(bps)	CURREN BIT RATE (kbps)	UTILIZATION (%)	UTILIZATION THRESHOLD(%)	ACTION	
2	AOL TIME WARNER INC.	VPN1	TOKYO	SENDAI	1540000	354.76	26.12	95	OK	
3	AOL TIME WARNER INC.	VPN2	TOKYO	OSAKA	1540000	201.71	14.16	99	OK	
4	AOL TIME WARNER INC.	VPN3	OSAKA	FURUOKA	1540000	129.64	14.88	78	OK	
5	AOL TIME WARNER INC.	VPN4	SAPPORO	SENDAI	1540000	1112.90	73.50	87	OK	
6	LUCENT TECHNOLOGIES INC.	VPN5	TOKYO	SENDAI	1540000	732.55	11.30	94	OK	
7	MICROSOFT	VPN6	SENDAI	FUKUOKA	1540000	40.52	2.52	84	OK	
8	GENERAL MOTORS	VPN7	FUKUOKA	OSAKA	1540000	197.05	13.19	96	OK	
9	EASTMAN KODAK	VPN8	SENDAI	SAPPORO	1540000	53.97	3.66	75	OK	
10	IOMEGA CORPORATION	VPN9	OSAKA	TOKYO	1540000	756.16	48.18	94	OK	
11	ACCENTURE	VPN10	SAPPORO	FUKUOKA	1540000	960.50	65.49	86	OK	
12	LEVI STRAUSS	VPN11	FUKUOKA	SAPPORO	1540000	554.25	37.10	74	OK	
13	COMPAQ COMPUTER CORPORATION	VPN12	SENDAI	TOKYO	1540000	47.67	3.14	92	OK	
14										
15										
16										
17										
18										
19										
20										
21										
22										
23										

FIG. 4

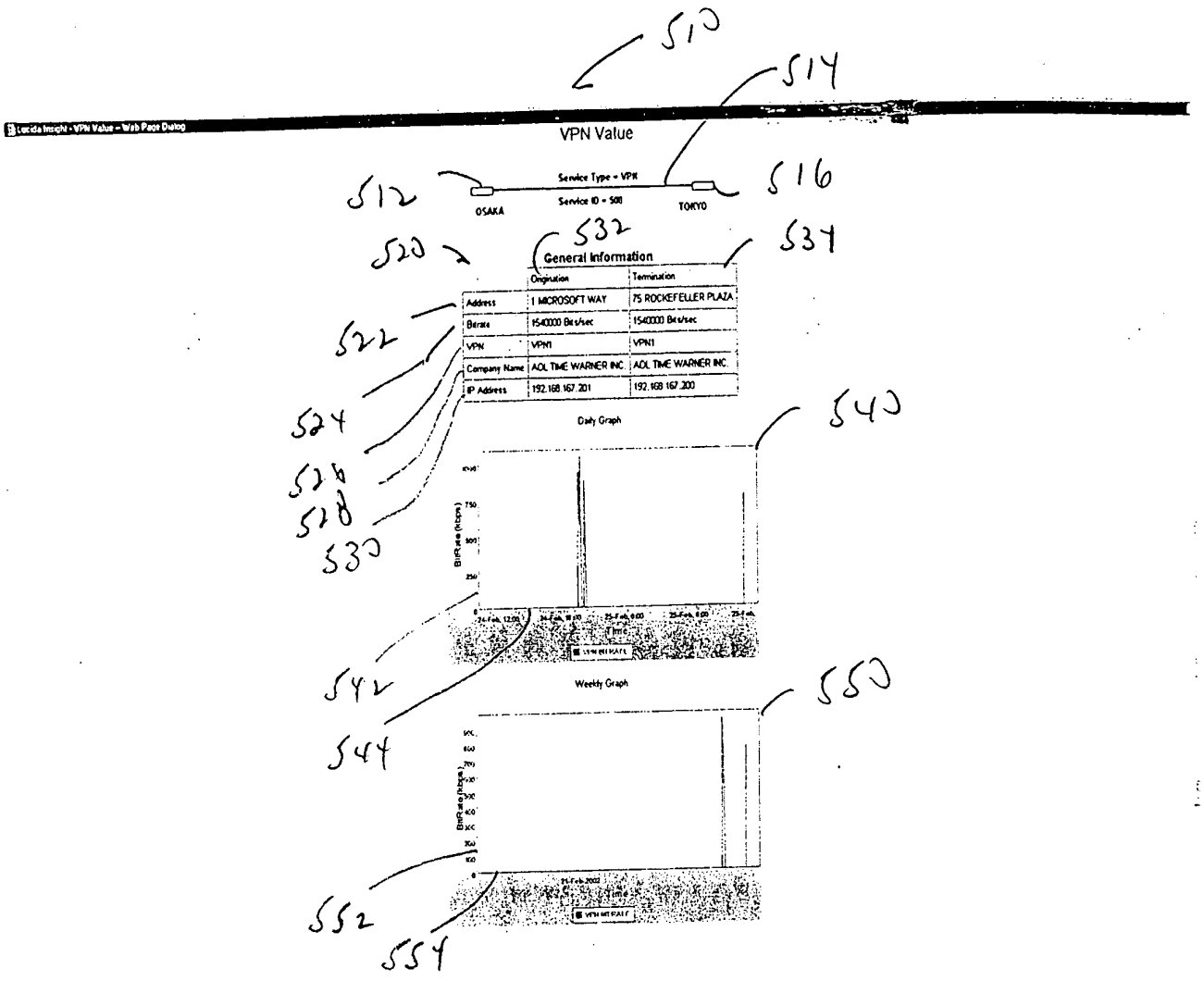

510
514
Lucida Insight - VPN Value - Web Page Dialog
VPN Value
Service Type = VPN
Service ID = 500
OSAKA
TOKYO
512
516
520
532
534
General Information
Origination
Termination
Address
1 MICROSOFT WAY
75 ROCKEFELLER PLAZA
Berate
1540000 Bits/sec
1540000 Bits/sec
VPN
VPN1
VPN1
Company Name
AOL TIME WARNER INC.
AOL TIME WARNER INC.
IP Address
192.168.167.201
192.168.167.200
522
524
526
528
530
Daily Graph
540
542
Weekly Graph
544
550
552
554

Fig 5

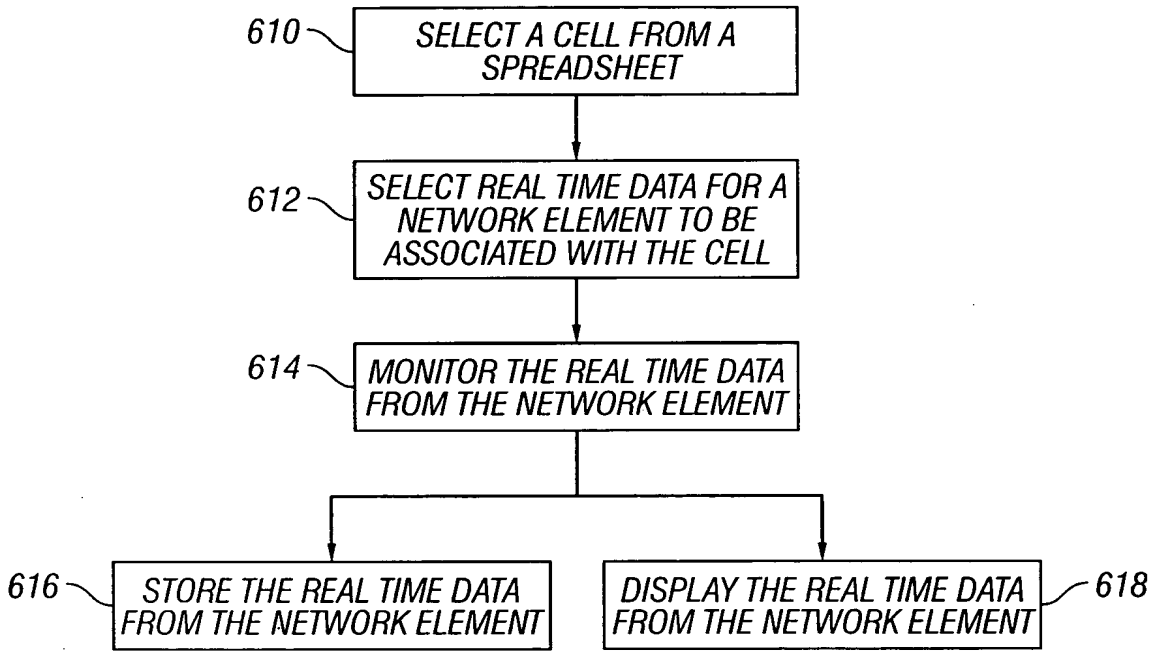

610
SELECT A CELL FROM A SPREADSHEET
612
SELECT REAL TIME DATA FOR A NETWORK ELEMENT TO BE ASSOCIATED WITH THE CELL
614
MONITOR THE REAL TIME DATA FROM THE NETWORK ELEMENT
616
STORE THE REAL TIME DATA FROM THE NETWORK ELEMENT
DISPLAY THE REAL TIME DATA FROM THE NETWORK ELEMENT
618

FIG. 6

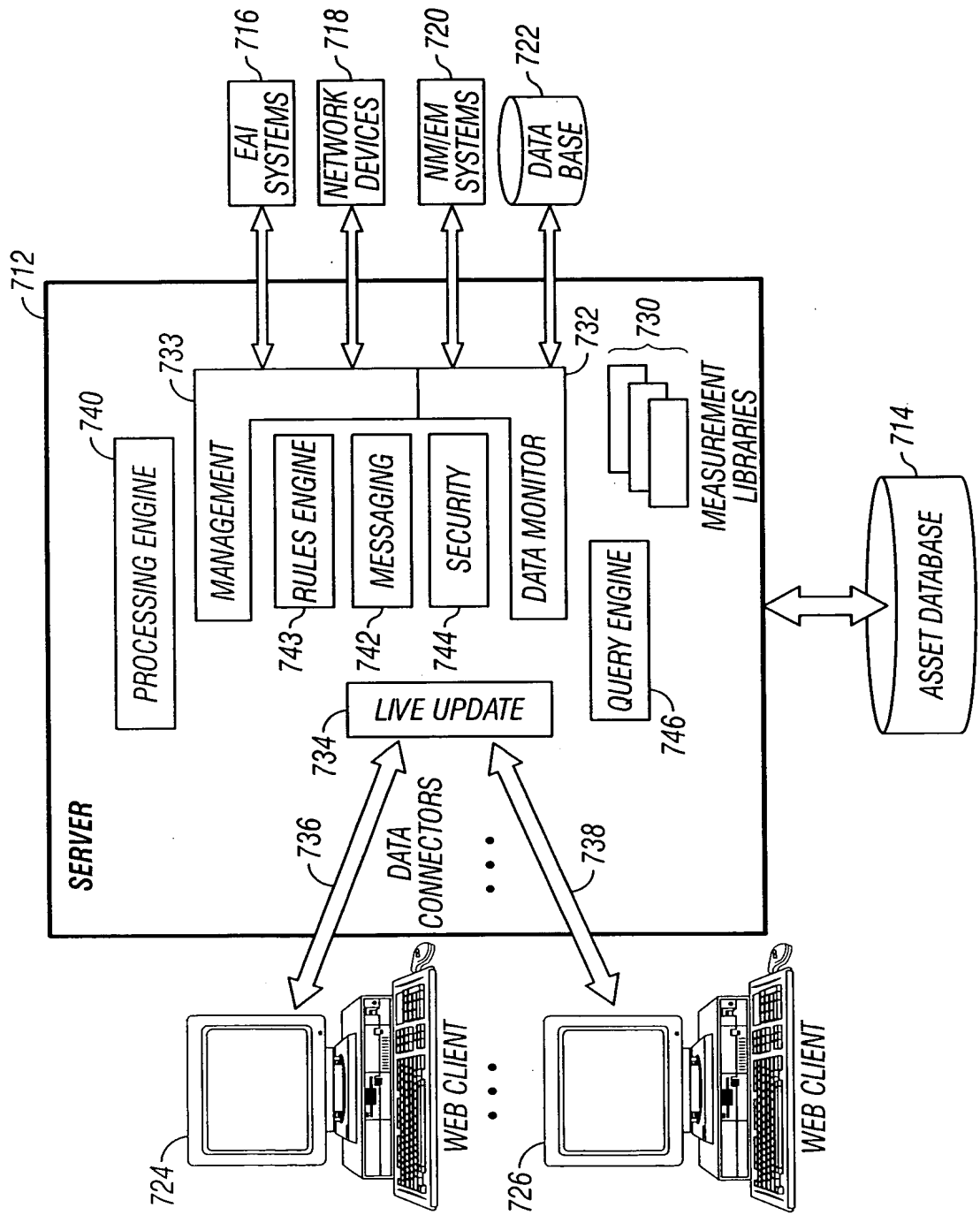

712
716
EAI SYSTEMS
718
NETWORK DEVICES
720
NM/EM SYSTEMS
722
DATA BASE
733
732
730
740
PROCESSING ENGINE
MANAGEMENT
RULES ENGINE
MESSAGING
SECURITY
DATA MONITOR
MEASUREMENT LIBRARIES
714
743
742
744
QUERY ENGINE
LIVE UPDATE
734
746
ASSET DATABASE
SERVER
736
DATA CONNECTORS
738
WEB CLIENT
WEB CLIENT
724
726

FIG. 7

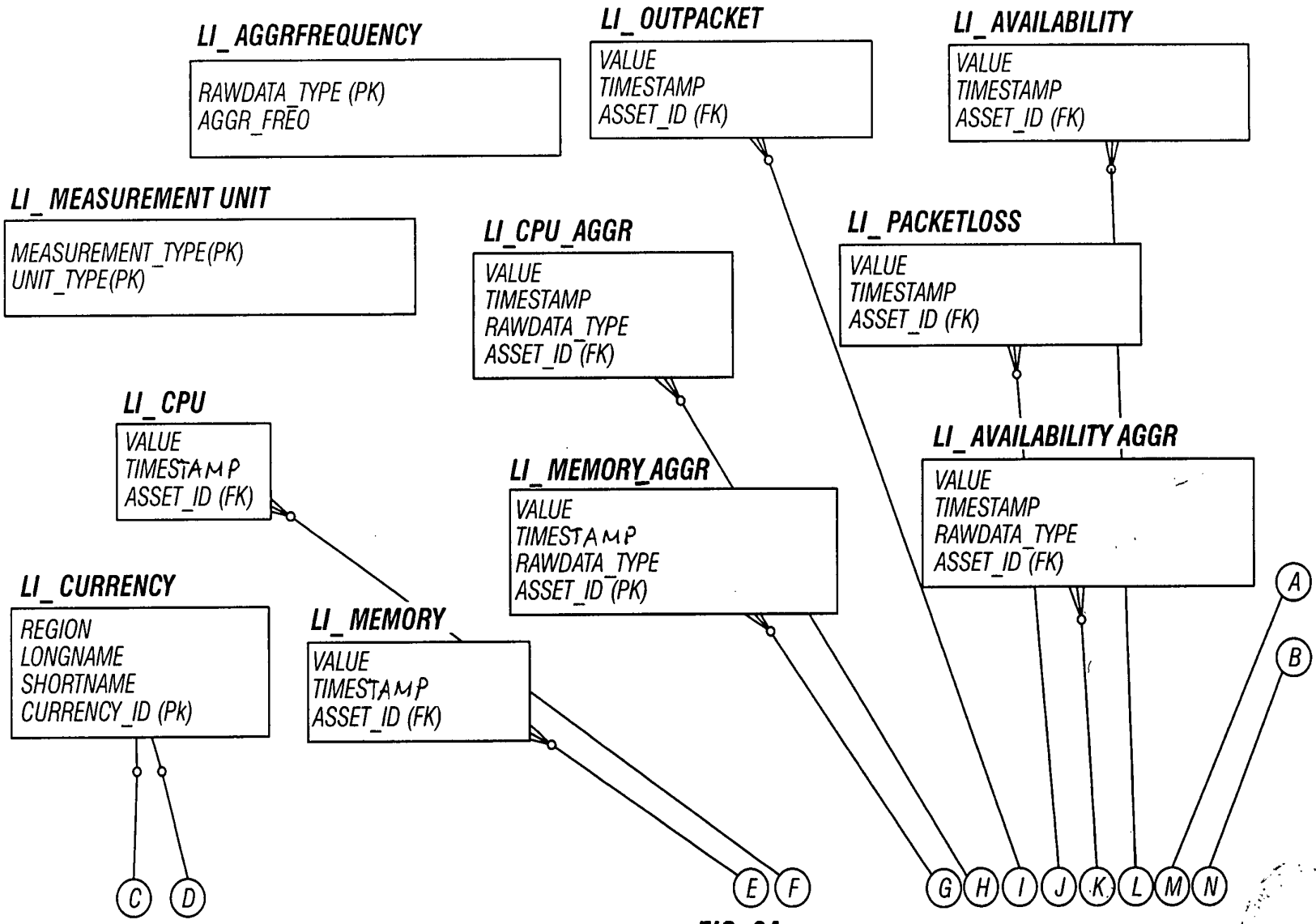

LI_AGGRFREQUENCY
RAWDATA_TYPE (PK)
AGGR_FREQ
LI_OUTPACKET
VALUE
TIMESTAMP
ASSET_ID (FK)
LI_AVAILABILITY
VALUE
TIMESTAMP
ASSET_ID (FK)
LI_MEASUREMENT UNIT
MEASUREMENT_TYPE(PK)
UNIT_TYPE(PK)
LI_CPU_AGGR
VALUE
TIMESTAMP
RAWDATA_TYPE
ASSET_ID (FK)
LI_PACKETLOSS
VALUE
TIMESTAMP
ASSET_ID (FK)
LI_CPU
VALUE
TIMESTAMP
ASSET_ID (FK)
LI_MEMORY_AGGR
VALUE
TIMESTAMP
RAWDATA_TYPE
ASSET_ID (PK)
LI_AVAILABILITY AGGR
VALUE
TIMESTAMP
RAWDATA_TYPE
ASSET_ID (FK)
LI_CURRENCY
REGION
LONGNAME
SHORTNAME
CURRENCY_ID (Pk)
LI_MEMORY
VALUE
TIMESTAMP
ASSET_ID (FK)
A
B
C
D
E
F
G
H
I
J
K
L
M
N

FIG. 8A

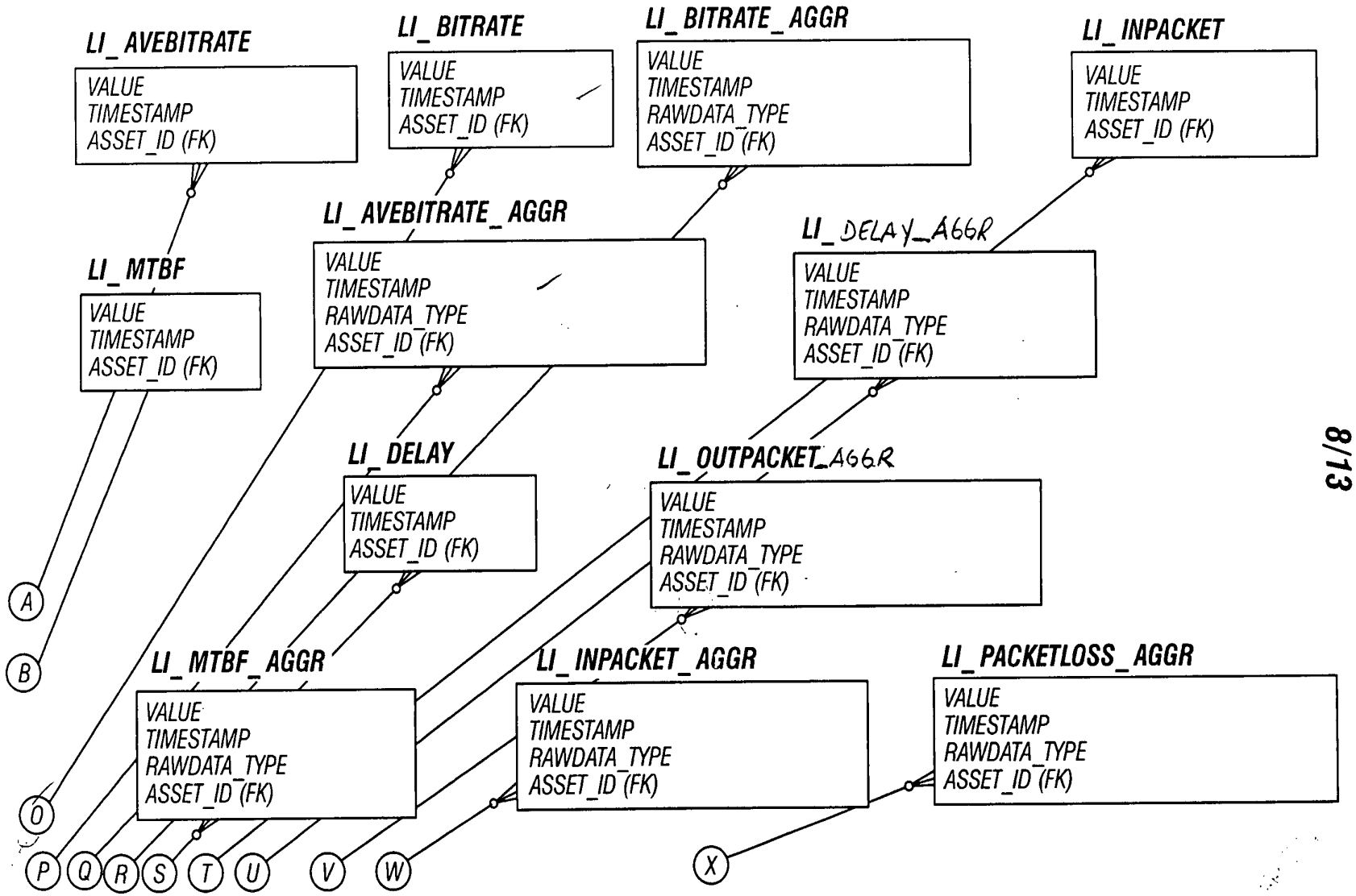

LI_AVEBITRATE
VALUE
TIMESTAMP
ASSET_ID (FK)
LI_BITRATE
VALUE
TIMESTAMP
ASSET_ID (FK)
LI_BITRATE_AGGR
VALUE
TIMESTAMP
RAWDATA_TYPE
ASSET_ID (FK)
LI_INPACKET
VALUE
TIMESTAMP
ASSET_ID (FK)
LI_MTBF
VALUE
TIMESTAMP
ASSET_ID (FK)
LI_AVEBITRATE_AGGR
VALUE
TIMESTAMP
RAWDATA_TYPE
ASSET_ID (FK)
LI_DELAY_AGGR
VALUE
TIMESTAMP
RAWDATA_TYPE
ASSET_ID (FK)
LI_DELAY
VALUE
TIMESTAMP
ASSET_ID (FK)
LI_OUTPACKET_AGGR
VALUE
TIMESTAMP
RAWDATA_TYPE
ASSET_ID (FK)
LI_MTBF_AGGR
VALUE
TIMESTAMP
RAWDATA_TYPE
ASSET_ID (FK)
LI_INPACKET_AGGR
VALUE
TIMESTAMP
RAWDATA_TYPE
ASSET_ID (FK)
LI_PACKETLOSS_AGGR
VALUE
TIMESTAMP
RAWDATA_TYPE
ASSET_ID (FK)
A
B
O
P
Q
R
S
T
U
V
W
X

FIG. 8B

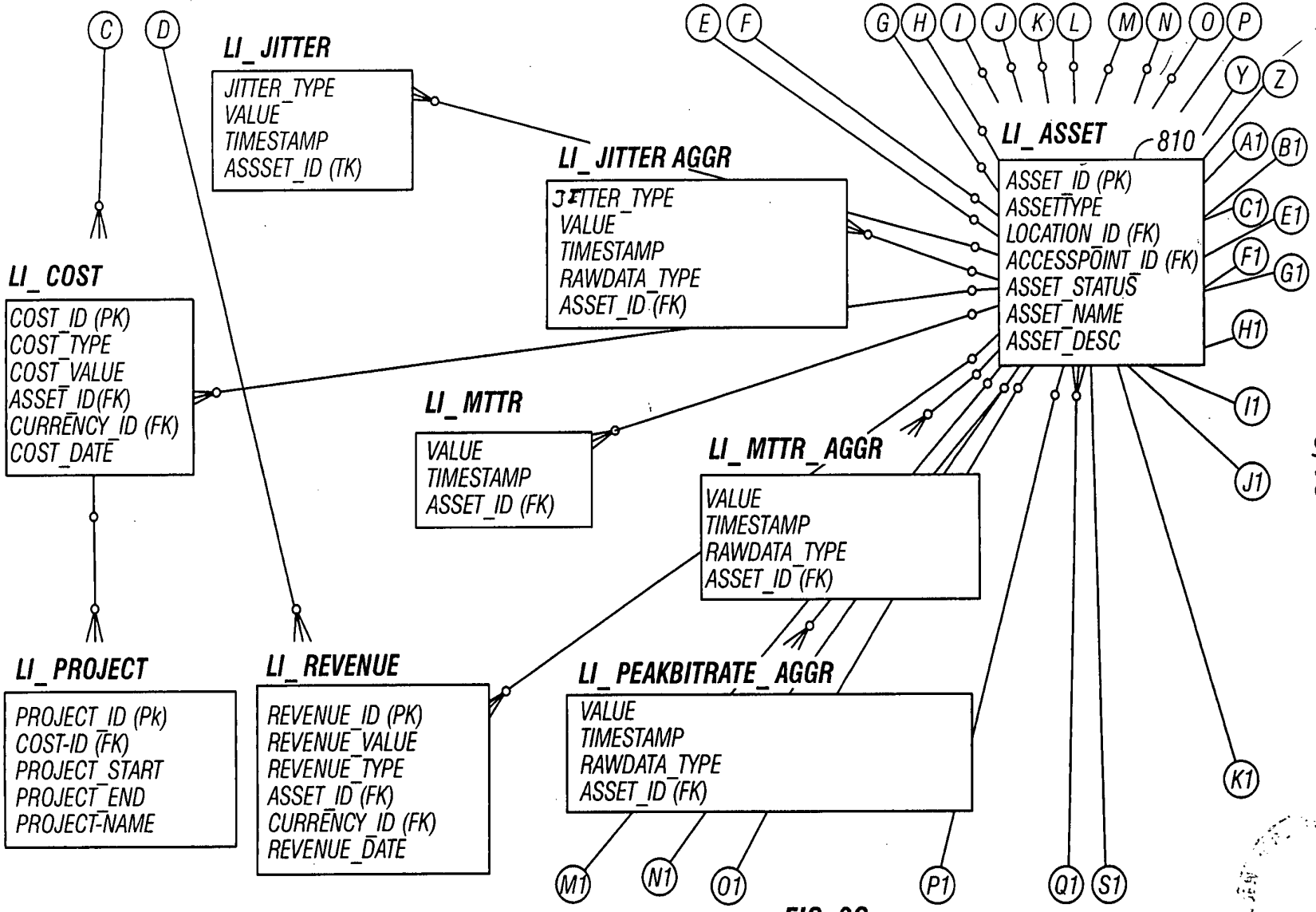

C
D
LI_JITTER
JITTER_TYPE
VALUE
TIMESTAMP
ASSSET_ID (TK)
E
F
G
H
I
J
K
L
M
N
O
P
Y
Z
LI_ASSET
810
LI_JITTER AGGR
JITTER_TYPE
VALUE
TIMESTAMP
RAWDATA_TYPE
ASSET_ID (FK)
ASSET_ID (PK)
ASSETTYPE
LOCATION_ID (FK)
ACCESSPOINT_ID (FK)
ASSET_STATUS
ASSET_NAME
ASSET_DESC
A1
B1
C1
E1
F1
G1
H1
I1
J1
K1
LI_COST
COST_ID (PK)
COST_TYPE
COST_VALUE
ASSET_ID(FK)
CURRENCY_ID (FK)
COST_DATE
LI_MTTR
VALUE
TIMESTAMP
ASSET_ID (FK)
LI_MTTR_AGGR
VALUE
TIMESTAMP
RAWDATA_TYPE
ASSET_ID (FK)
LI_PROJECT
PROJECT_ID (Pk)
COST-ID (FK)
PROJECT_START
PROJECT_END
PROJECT-NAME
LI_REVENUE
REVENUE_ID (PK)
REVENUE_VALUE
REVENUE_TYPE
ASSET_ID (FK)
CURRENCY_ID (FK)
REVENUE_DATE
LI_PEAKBITRATE_AGGR
VALUE
TIMESTAMP
RAWDATA_TYPE
ASSET_ID (FK)
M1
N1
O1
P1
Q1
S1

FIG. 8C

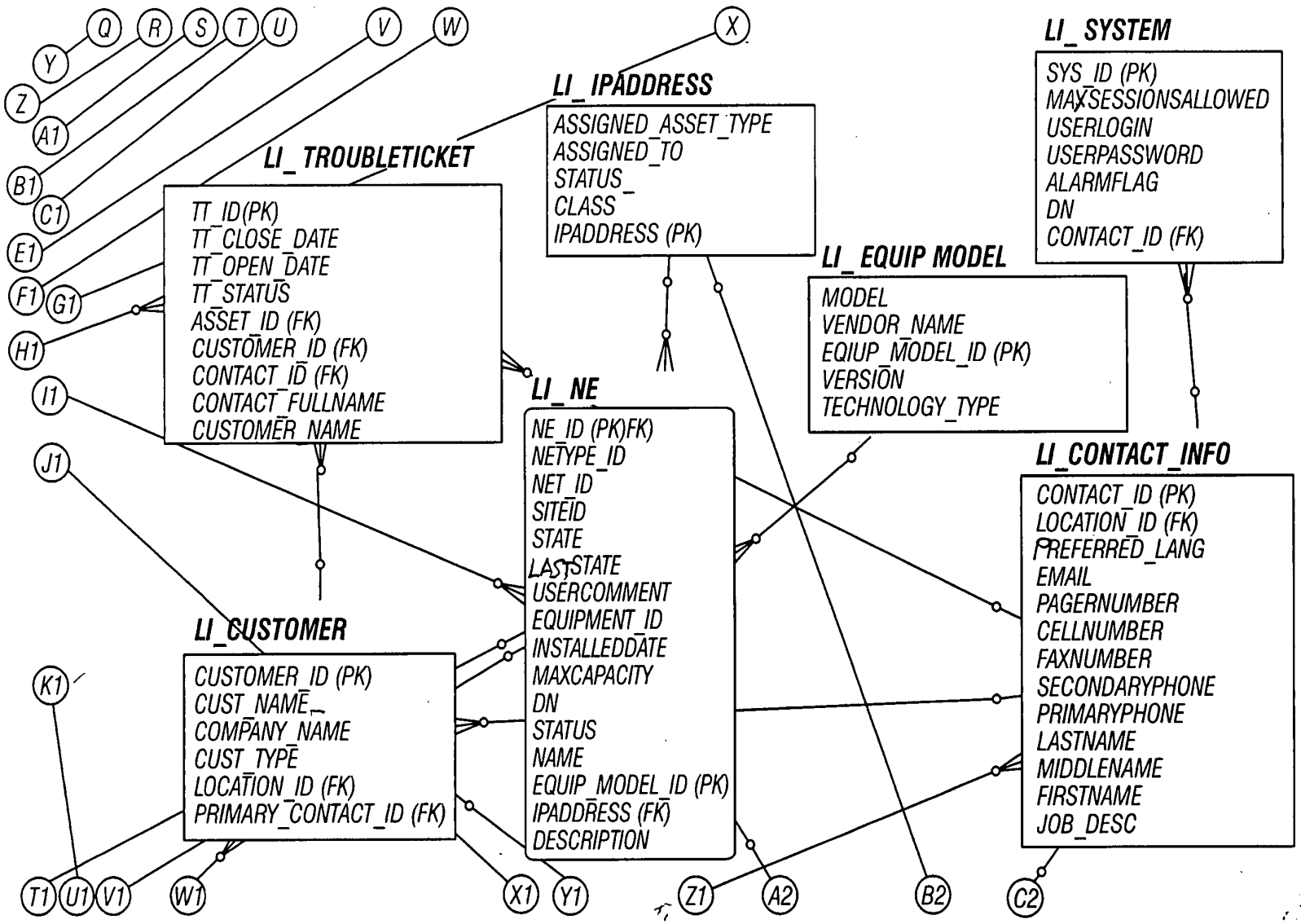

LI_TROUBLETICKET
TT_ID(PK)
TT_CLOSE_DATE
TT_OPEN_DATE
TT_STATUS
ASSET_ID (FK)
CUSTOMER_ID (FK)
CONTACT_ID (FK)
CONTACT_FULLNAME
CUSTOMER_NAME
LI_IPADDRESS
ASSIGNED_ASSET_TYPE
ASSIGNED_TO
STATUS_
CLASS
IPADDRESS (PK)
LI_SYSTEM
SYS_ID (PK)
MAXSESSIONSALLOWED
USERLOGIN
USERPASSWORD
ALARMFLAG
DN
CONTACT_ID (FK)
LI_EQUIP MODEL
MODEL
VENDOR_NAME
EQIUP_MODEL_ID (PK)
VERSION
TECHNOLOGY_TYPE
LI_NE
NE_ID (PK)FK)
NETYPE_ID
NET_ID
SITEID
STATE
LAST_STATE
USERCOMMENT
EQUIPMENT_ID
INSTALLEDDATE
MAXCAPACITY
DN
STATUS
NAME
EQUIP_MODEL_ID (PK)
IPADDRESS (FK)
DESCRIPTION
LI_CONTACT_INFO
CONTACT_ID (PK)
LOCATION_ID (FK)
PREFERRED_LANG
EMAIL
PAGERNUMBER
CELLNUMBER
FAXNUMBER
SECONDARYPHONE
PRIMARYPHONE
LASTNAME
MIDDLENAME
FIRSTNAME
JOB_DESC
LI_CUSTOMER
CUSTOMER_ID (PK)
CUST_NAME
COMPANY_NAME
CUST_TYPE
LOCATION_ID (FK)
PRIMARY_CONTACT_ID (FK)
Q
R
S
T
U
V
W
X
Y
Z
A1
B1
C1
E1
F1
G1
H1
I1
J1
K1
T1
U1
V1
W1
X1
Y1
Z1
A2
B2
C2

FIG. 8D

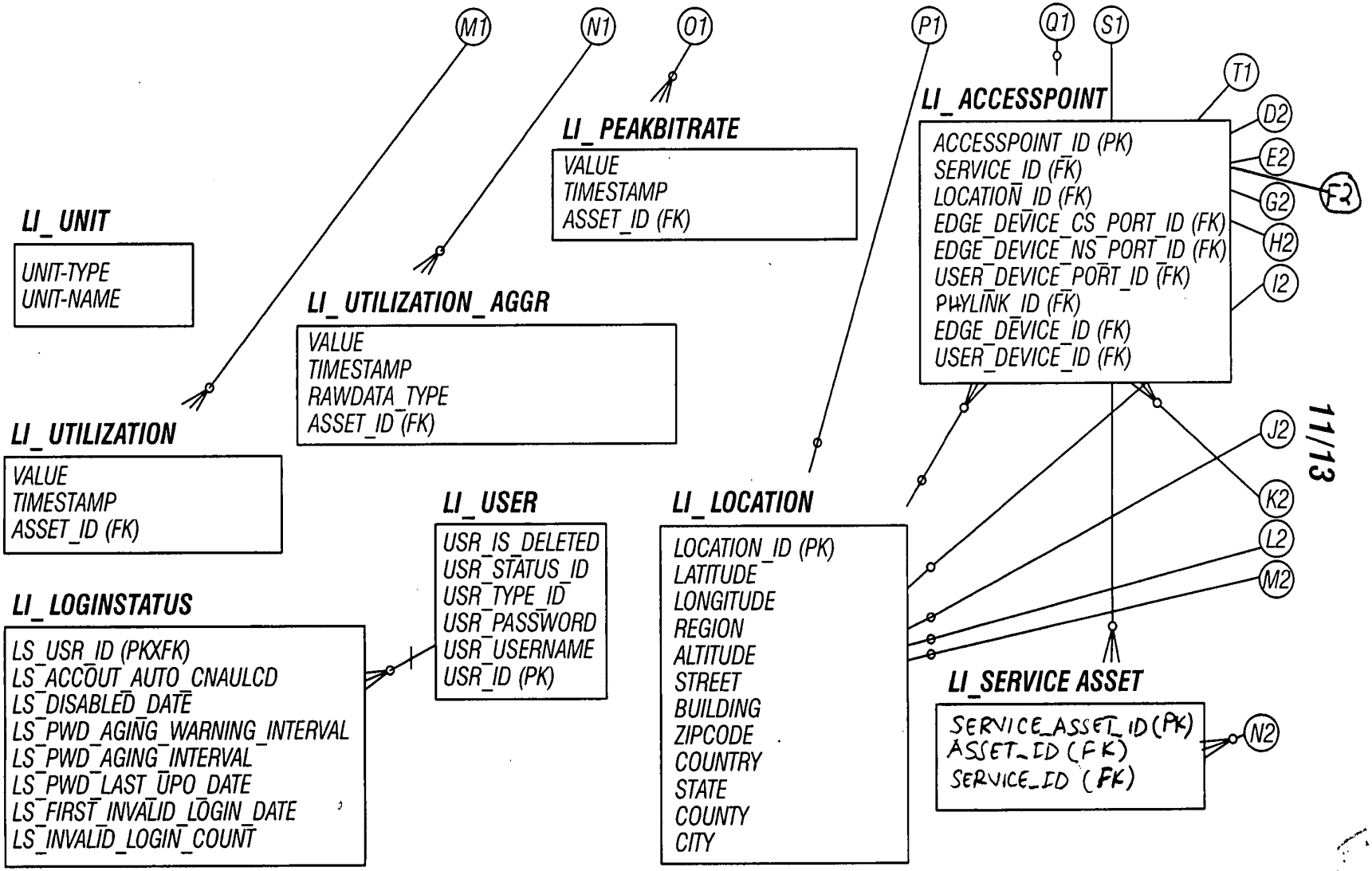

LI_UNIT
UNIT-TYPE
UNIT-NAME
LI_UTILIZATION
VALUE
TIMESTAMP
ASSET_ID (FK)
LI_UTILIZATION_AGGR
VALUE
TIMESTAMP
RAWDATA_TYPE
ASSET_ID (FK)
LI_PEAKBITRATE
VALUE
TIMESTAMP
ASSET_ID (FK)
LI_ACCESSPOINT
ACCESSPOINT_ID (PK)
SERVICE_ID (FK)
LOCATION_ID (FK)
EDGE_DEVICE_CS_PORT_ID (FK)
EDGE_DEVICE_NS_PORT_ID (FK)
USER_DEVICE_PORT_ID (FK)
PHYLINK_ID (FK)
EDGE_DEVICE_ID (FK)
USER_DEVICE_ID (FK)
LI_USER
USR_IS_DELETED
USR_STATUS_ID
USR_TYPE_ID
USR_PASSWORD
USR_USERNAME
USR_ID (PK)
LI_LOCATION
LOCATION_ID (PK)
LATITUDE
LONGITUDE
REGION
ALTITUDE
STREET
BUILDING
ZIPCODE
COUNTRY
STATE
COUNTY
CITY
LI_LOGINSTATUS
LS_USR_ID (PKXFK)
LS_ACCOUT_AUTO_CNAULCD
LS_DISABLED_DATE
LS_PWD_AGING_WARNING_INTERVAL
LS_PWD_AGING_INTERVAL
LS_PWD_LAST_UPO_DATE
LS_FIRST_INVALID_LOGIN_DATE
LS_INVALID_LOGIN_COUNT
LI_SERVICE ASSET
SERVICE_ASSET_ID (PK)
ASSET_ID (FK)
SERVICE_ID (FK)
M1
N1
O1
P1
Q1
S1
T1
D2
E2
F2
G2
H2
I2
J2
K2
L2
M2
N2
11/13

FIG. 8E

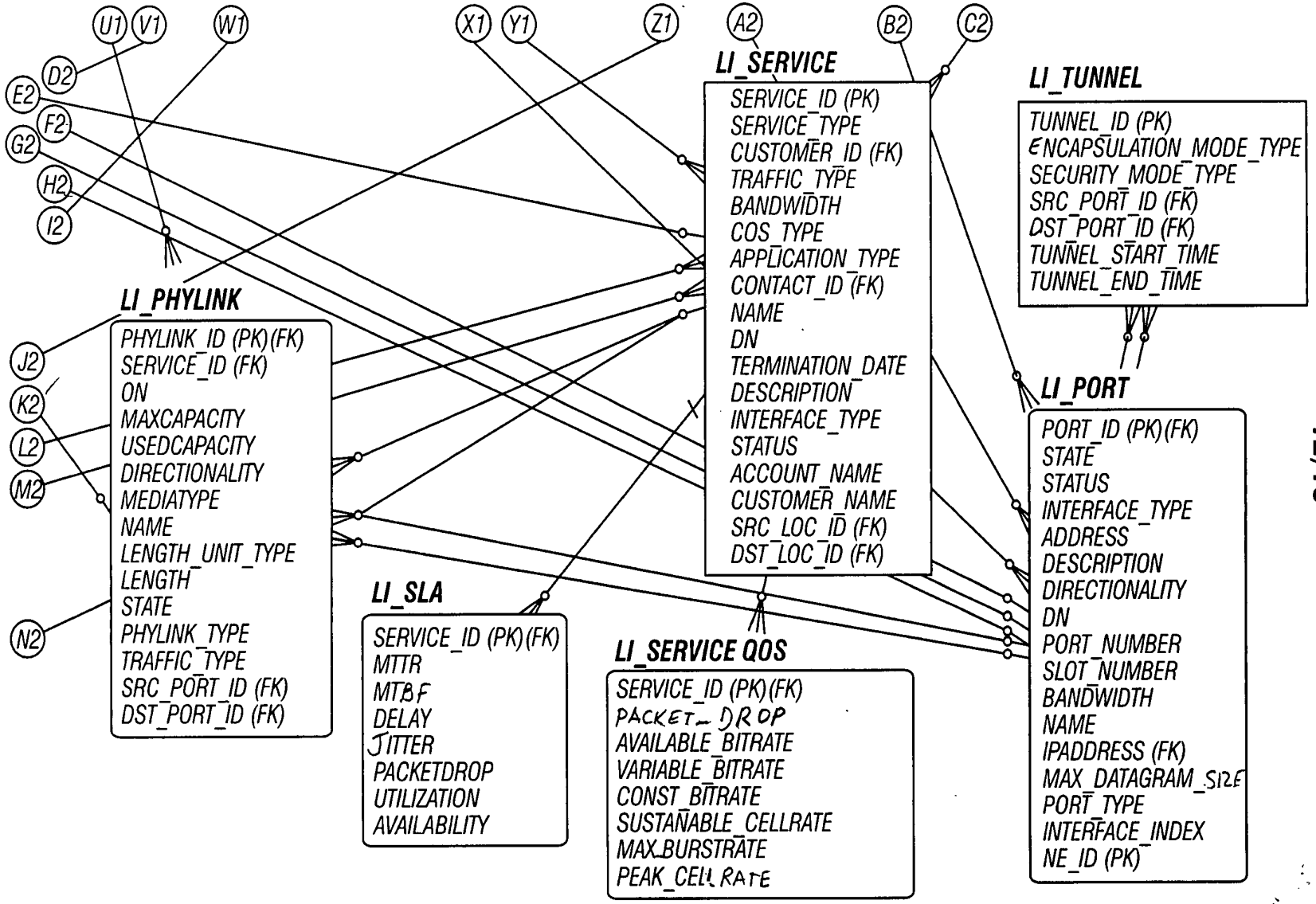

U1
V1
W1
D2
E2
F2
G2
H2
I2
X1
Y1
Z1
A2
B2
C2
LI_SERVICE
SERVICE_ID (PK)
SERVICE_TYPE
CUSTOMER_ID (FK)
TRAFFIC_TYPE
BANDWIDTH
COS_TYPE
APPLICATION_TYPE
CONTACT_ID (FK)
NAME
DN
TERMINATION_DATE
DESCRIPTION
INTERFACE_TYPE
STATUS
ACCOUNT_NAME
CUSTOMER_NAME
SRC_LOC_ID (FK)
DST_LOC_ID (FK)
LI_TUNNEL
TUNNEL_ID (PK)
ENCAPSULATION_MODE_TYPE
SECURITY_MODE_TYPE
SRC_PORT_ID (FK)
DST_PORT_ID (FK)
TUNNEL_START_TIME
TUNNEL_END_TIME
LI_PHYLINK
J2
K2
L2
M2
N2
PHYLINK_ID (PK)(FK)
SERVICE_ID (FK)
ON
MAXCAPACITY
USEDCAPACITY
DIRECTIONALITY
MEDIATYPE
NAME
LENGTH_UNIT_TYPE
LENGTH
STATE
PHYLINK_TYPE
TRAFFIC_TYPE
SRC_PORT_ID (FK)
DST_PORT_ID (FK)
LI_PORT
PORT_ID (PK)(FK)
STATE
STATUS
INTERFACE_TYPE
ADDRESS
DESCRIPTION
DIRECTIONALITY
DN
PORT_NUMBER
SLOT_NUMBER
BANDWIDTH
NAME
IPADDRESS (FK)
MAX_DATAGRAM_SIZE
PORT_TYPE
INTERFACE_INDEX
NE_ID (PK)
LI_SLA
SERVICE_ID (PK)(FK)
MTTR
MTBF
DELAY
JITTER
PACKETDROP
UTILIZATION
AVAILABILITY
LI_SERVICE QOS
SERVICE_ID (PK)(FK)
PACKET_DROP
AVAILABLE_BITRATE
VARIABLE_BITRATE
CONST_BITRATE
SUSTAINABLE_CELLRATE
MAX_BURSTRATE
PEAK_CELL_RATE

FIG. 8F

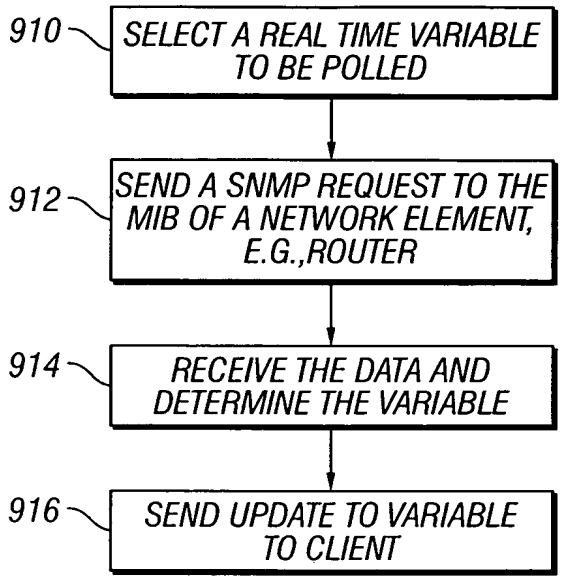

910
SELECT A REAL TIME VARIABLE TO BE POLLED
912
SEND A SNMP REQUEST TO THE MIB OF A NETWORK ELEMENT, E.G.,ROUTER
914
RECEIVE THE DATA AND DETERMINE THE VARIABLE
916
SEND UPDATE TO VARIABLE TO CLIENT

FIG. 9

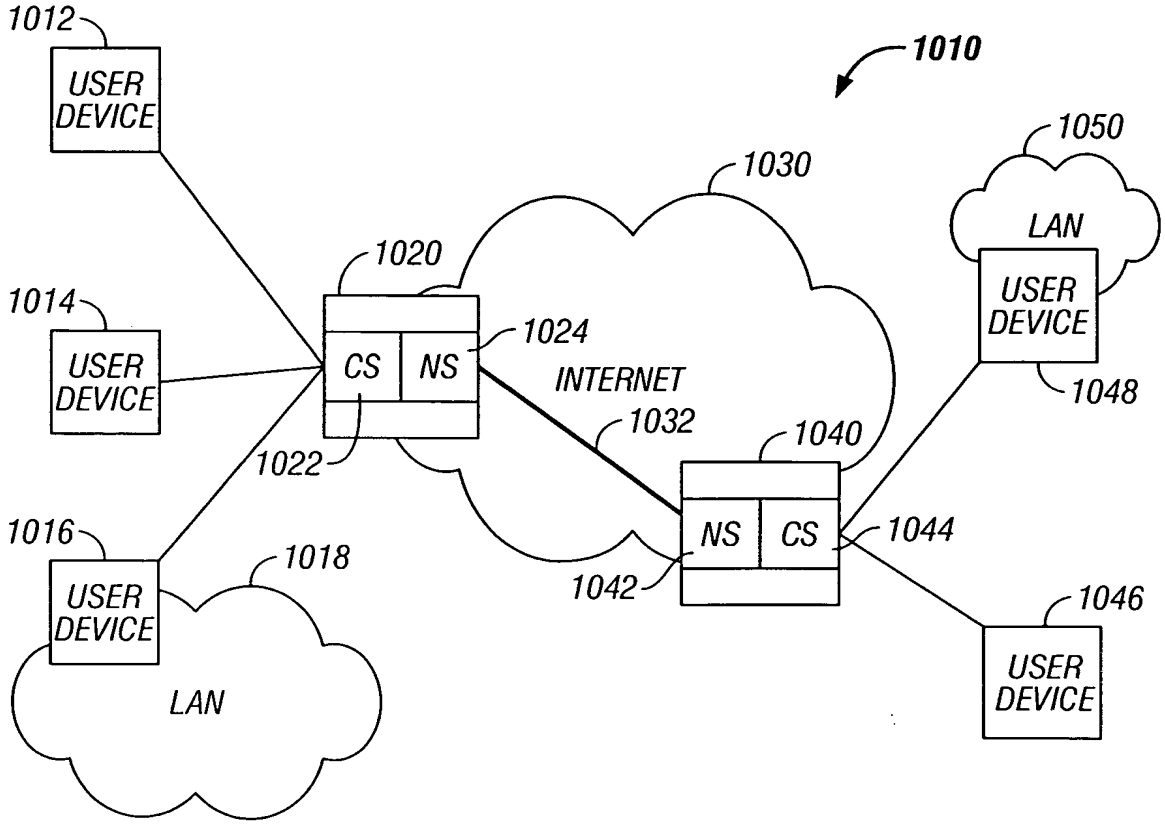

1012
USER DEVICE
1010
1050
LAN
1030
1020
1014
USER DEVICE
CS
NS
1024
INTERNET
USER DEVICE
1048
1032
1040
1022
1016
USER DEVICE
1018
NS
CS
1044
1042
1046
USER DEVICE
LAN

FIG. 10